

Amendments to the Specification:

Please replace paragraph the beginning at page 4, line 1 with the following amended paragraph:

BRIEF DESCRIPTION OF THE DRAWINGS

The above features of the present invention will be more clearly understood from consideration of the following descriptions in connection with accompanying drawings in which:

~~Figure 1 is~~ Figures 1a and 1b are an overview of an optical wireless network;

Figure 2 is block diagram of an optical wireless modem according a preferred embodiment of the present invention;

Figures 3a and 3b are the transmitter and receiver of an optical module;

Figure 4 shows an arrangement of receiver directions allowing separation of incoming light from the same direction;

Figure 5 shows an arrangement of receiver wavelength sensitivities such that the separation distance between detectors with the same wavelength sensitivity is increases;

Figure 6 shows an arrangement of receiver polarization such that the adjacent detectors are sensitive to independent polarization[;].

Please replace paragraph the beginning at page 5, line 7 with the following amended paragraph:

The embodiments of the present invention will now be described with reference to the drawings. ~~Figure 1 shows~~ Figures 1a and 1b show an overview of a potential network application of the present invention. Description of a number of implementations then follows.

Please replace paragraph the beginning at page 6, line 6 with the following amended paragraph:

a³ | One embodiment of an optical module 30 is provided in Figure [[11]]2. The module includes an Encoder/Decoder Unit 320, coupled by a two-way Data Link 322 to an Optical Transceiver Unit [(OUT)](OTU) 324. The OTU 324 acts as an electrical to light and light to electrical converter. It contains a light source, such as a laser or light emitting diode, control electronics for the light source, a photo-detector for converting the received light to electrical signals and amplifiers to boost the electrical strength to that compatible with the decoder.

Please replace paragraph the beginning at page 10, line 4 with the following amended paragraph:

a⁴ | In addition, note that a single processor may control multiple OWL links. This capability can be very valuable for use in a network hub, where multiple links originate or terminate in a single physical network switch. A single DSP could provide a very cost efficient control facility in such cases. In all such cases, the requirements for this processor are a sufficiently high instruction processing rate in order to control the specified number of micro-mirrors, and a sufficient number of input/output ("I/O") ports to manage control subsystem devices and peripheral functions. In Figure 2, for example, processor 42 is coupled to a second transceiver via links 336', 342' and 352', which correspond to lines 336, 342 and 352, respectively.